UNITED STATES SPECIFICATION

TO ALL WHOM IT MAY CONCERN:

BE IT KNOWN THAT I, James J. Conroy, residing at 18 Millbrook Court, Great Neck, NY 11021

have invented certain new and useful improvements in an

Insecticide Presentation Device

of which the following is a specification.

BACKGROUND OF THE INVENTION

1. Field of the Invention

When an exterminator enters a home or any other establishment, that exterminator must comply with EPA, OHSA, Department of Environmental Conservation and other rules or laws when dispensing insecticide within a home. To ease the requirement levels for the exterminator the present invention relates to an insecticide presentation device that is designed to help an exterminator comply with a series of stringent rules as described above. Essentially, the invention relates to an insecticide presentation device that contains a body, and a series of spikes or protrusions to elevate the body away from a surface.

2. Description of the Prior Art

The following references are known in the art. U.S. Patent Nos. 5,987,809; 4,173,093; 5,531,043; 5,802,761; 2,435,317; 790,620; 600,530; 1,566,199; 2,547,314; 2,665,518; and 5,987,810; are known in the art. The present invention is an improvement over the designs of the references cited above because this present invention provides an insecticide presentation device

that can be placed on or adjacent to a surface using an omni-directional device.

SUMMARY OF THE INVENTION

The present invention was designed to overcome the problems of the art by presenting an omnidirectional insecticide presentation device containing a series of protrusions or spikes extending out therefrom. The presentation device acts as a body containing a series of crevasses, or elongated indentations for receiving an insecticide. This device can receive an insecticide that is injected as a gel into these indentations. Once the gel is inserted into these indentations, the device can then be placed behind furniture, appliances, up into ceiling tiles, under cabinets or any other place that would be necessary to rid of insects.

The presentation device contains a series of protrusions in the form of ridges, spikes, or bumps that keep the indentations or crevasses away from a particular surface such as a wall, a floor, appliance or a ceiling tile. It is important to keep these indentations that have been injected away from these surfaces to allow insects access to the insecticides housed in these indentations.

The body of this device can be shaped such that it resembles a football, with an oval cross section, a pyramid, with a triangular cross section, a sphere with a circular cross-section, or block-shaped with a substantially rectangular cross section.

BRIEF DESCRIPTION OF THE DRAWINGS

Other objects and features of the present invention will become apparent from the following detailed description considered in connection with the accompanying drawings which disclose two embodiments of the present invention. It should be understood, however, that the drawings are designed for the purpose of illustration only and not as a definition of the limits of the invention.

In the drawings wherein similar reference characters denote similar elements throughout the several views:

FIG. 1A is a cross-sectional view of a first embodiment of the invention;

FIG. 1B is a cross-sectional view of a second embodiment of the invention;

FIG. 1C is a cross sectional view of the third embodiment of the invention;

FIG. 1D is a cross sectional view of the fourth embodiment of the invention;

FIG. 2A is a front view of the first embodiment of the invention;

FIG. 2B is a front view of the first embodiment of the invention receiving an insecticide injection;

FIG. 2C is a front view of the fifth embodiment of the invention; and

FIG. 2D is a cross sectional view of the fifth embodiment of the invention;

FIG. 3A shows a perspective view of the device having an inner chamber; and

FIG. 3B shows a cross sectional view taken along the line 3-3 of the embodiment in FIG. 3A.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

FIGS. 1A, 1B, 1C, and 1D and 1E show perspective views of the first four embodiments of the invention while FIGS. 2A, 2B, 2C, and 2D show the side views of these four embodiments. These four embodiments show some of the different possible shapes for the cross sections of these devices 10. For example the device can have a body 12 having a triangular cross section and shaped like a prism or a pyramid as shown in FIG. 2A.

FIG. 1B shows a second design of a body 14 which has a square or rectangular cross section and can be formed as an elongated member shown in FIG. 2B.

FIG. 1C shows a third design of a body 16 which has a circular cross section and can be shaped as a sphere 16' as shown in FIG. 2C or substantially similar to a football 16" as shown in FIG. 2D.

Finally, FIG. 1D shows a fourth design of a body 18 having a hexagonal cross section which can be formed as an elongated member shown in FIG. 2B.

All of the above embodiments contain a series of spikes or

protrusions 20 extending out from this device such that they keep the body of this device away from a particular surface such as a wall, floor or ceiling tile. In addition all of these embodiments contain at least one channel 22 in which an insecticide can be injected therein. These channels extend along the length of the body and provide a region for housing this insecticide.

As with all of the shapes of these embodiments, the design is such that all of these embodiments can either be placed, or thrown blindly into an inaccessible area and then left to sit on one side so that the crevasses are elevated above a substantially horizontal surface such as a floor and also disposed away from a vertical surface such as a wall. This distance is sufficient to allow insects such as ants or cockroaches to gain access to the insecticide disposed within these crevasses.

The body, crevasses and the protrusions can be made in varying sizes so as to allow different kinds of insects access to the insecticide.

As shown in FIGS. 3A, and 3B the body can also contain an internal chamber 26 that allows an insecticide to be injected therein. This internal chamber is in fluid communication with

the crevasses such that fluid such as a gel that is injected into the chamber then flows into these crevasses. The fluid essentially flows down this internal chamber and through a series of conduits 28 that allow the fluid to flow to the crevasses. The crevasses contain a series of holes 29 allowing fluid to flow out of these holes and into the crevasses.

This internal chamber is open at one end 30 and closed at the other end 32 so that the fluid does not flow out the other side. Instead, as fluid is injected into this internal chamber, pressure builds up within this chamber and is relieved when fluid flows through the conduits and out of the holes. Thus, with this design, a user only has to insert an injection nozzle into an opening 30 within internal chamber 26 and then inject the fluid to fill all of the crevasses 22 in a particular device up.

Accordingly, while several embodiments of the present invention have been shown and described, it is to be understood that many changes and modifications may be made thereunto without departing from the spirit and scope of the invention as defined in the appended claims.